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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	OCT 02	CA/CAPLUS enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	3	OCT 19	BEILSTEIN updated with new compounds
NEWS	4	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	5	NOV 19	WPIX enhanced with XML display format
NEWS	6	NOV 30	ICSD reloaded with enhancements
NEWS	7	DEC 04	LINPADOCDB now available on STN
NEWS	8	DEC 14	BEILSTEIN pricing structure to change
NEWS	9	DEC 17	USPATOLD added to additional database clusters
NEWS	10	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	11	DEC 17	DGENE now includes more than 10 million sequences
NEWS	12	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	13	DEC 17	MEDLINE and LMEDELINE updated with 2008 MeSH vocabulary
NEWS	14	DEC 17	CA/CAPLUS enhanced with new custom IPC display formats
NEWS	15	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	16	JAN 02	STN pricing information for 2008 now available
NEWS	17	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	18	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	19	JAN 28	MARPAT searching enhanced
NEWS	20	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	21	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	22	JAN 28	MEDLINE and LMEDELINE reloaded with enhancements
NEWS	23	FEB 08	STN Express, Version 8.3, now available
NEWS	24	FEB 20	PCI now available as a replacement to DPCI
NEWS	25	FEB 25	IFIREF reloaded with enhancements
NEWS	26	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	27	FEB 29	WPIXINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 16:54:51 ON 04 MAR 2008

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

0.21	0.21
------	------

FILE 'REGISTRY' ENTERED AT 16:54:56 ON 04 MAR 2008

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STRUCTURE FILE UPDATES: 3 MAR 2008 HIGHEST RN 1006431-93-1

DICTIONARY FILE UPDATES: 3 MAR 2008 HIGHEST RN 1006431-93-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

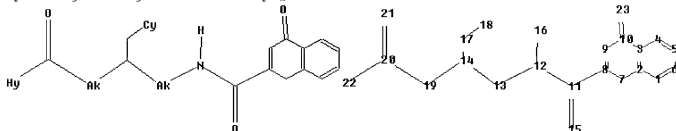
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10550267.str



chain nodes :

11 12 13 14 15 16 17 18 19 20 21 22 23

ring nodes :

1 2 3 4 5 6 7 8 9 10

```

chain bonds :
8-11 10-23 11-12 11-15 12-13 12-16 13-14 14-17 14-19 17-18 19-20 20-21
20-22
ring bonds :
1-2 1-6 2-3 2-7 3-4 3-10 4-5 5-6 7-8 8-9 9-10
exact/norm bonds :
10-23 11-12 11-15 12-13 13-14 14-19 17-18 19-20 20-21 20-22
exact bonds :
2-7 3-10 7-8 8-9 8-11 9-10 12-16 14-17
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom
19:CLASS 20:CLASS
21:CLASS 22:Atom 23:CLASS

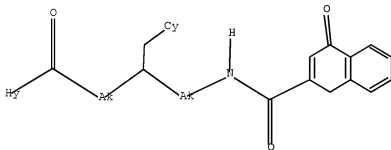
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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 16:55:31 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 9839 TO ITERATE

100.0% PROCESSED 9839 ITERATIONS

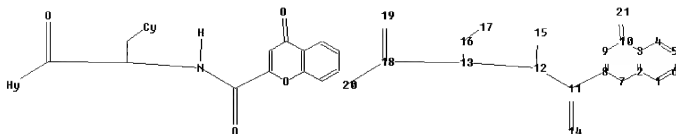
0 ANSWERS

SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10550267\noalk.str



```

chain nodes :
11 12 13 14 15 16 17 18 19 20 21
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
8-11 10-21 11-12 11-14 12-15 12-13 13-16 13-18 16-17 18-20 18-19
ring bonds :
1-2 1-6 2-3 2-7 3-4 3-10 4-5 5-6 7-8 8-9 9-10
exact/norm bonds :
10-21 11-12 11-14 12-13 16-17 18-20 18-19
exact bonds :
2-7 3-10 7-8 8-9 8-11 9-10 12-15 13-16 13-18
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:Atom 18:CLASS
19:CLASS 20:Atom 21:CLASS

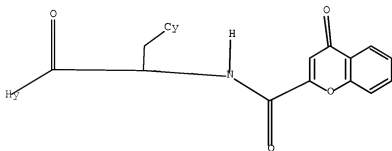
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L3 STRUCTURE UPLOADED

=> d l3

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l3 full
FULL SEARCH INITIATED 16:57:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 472 TO ITERATE

100.0% PROCESSED 472 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.01

L4 8 SEA SSS FUL L3

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 358.10 358.31

FILE 'CAPLUS' ENTERED AT 16:57:43 ON 04 MAR 2008
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FILE COVERS 1907 - 4 Mar 2008 VOL 148 ISS 10
FILE LAST UPDATED: 3 Mar 2008 (20080303/ED)

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<http://www.cas.org/infopolicy.html>

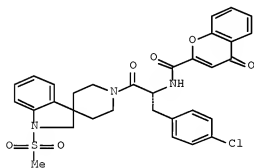
=> s l4 full
L5 1 L4

=> d ibib abs hitstr

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:772652 CAPLUS Full-text
DOCUMENT NUMBER: 141:261061
TITLE: Preparation of substituted piperidine and piperazine amino acid derivatives as melanocortin-4 receptor modulators
INVENTOR(S): Soeberdt, Michael; Weyermann, Philipp; Von Sprecher, Andreas
PATENT ASSIGNEE(S): Myocontract Ltd., Switz.
SOURCE: Eur. Pat. Appl., 66 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1460073	A1	20040922	EP 2003-6254	20030320
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004222095	A1	20040930	AU 2004-222095	20040319
AU 2004222095	B2	20070517		
CA 2519442	A1	20040930	CA 2004-2519442	20040319
WO 2004083209	A1	20040930	WO 2004-EP2907	20040319
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1603912	A1	20051214	EP 2004-721899	20040319
EP 1603912	B1	20070718		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
JP 2006520362	T	20060907	JP 2006-504754	20040319
AT 367391	T	20070815	AT 2004-721899	20040319
US 2006241123	A1	20061026	US 2006-550267	20060213
PRIORITY APPLN. INFO.:			EP 2003-6254	A 20030320
			WO 2004-EP2907	A 20040319

OTHER SOURCE(S): MARPAT 141:261061
GI



I

AB The invention relates to novel substituted piperidine and piperazine derivs. A-CO(CH₂)_mCH(CH₂-Ar)(CH₂)_nNHCOR1 [Ar is (un)substituted aryl or heteroaryl; R1 is (un)substituted chromone-2-yl, 3-aminochromone-2-yl or 4-oxoquinolin-3-yl; A is substituted 1-piperidinyl or 1-piperazinyl; m, n are 0-2] or their pharmaceutically-acceptable salts for use as melanocortin-4 receptor (MC-4R) modulators. MC-4R agonists of the invention can be used for the treatment of disorders and diseases such as obesity, diabetes, and sexual dysfunction, whereas the MC-4R antagonists are useful for the treatment of cancer cachexia, muscle wasting, anorexia, anxiety, depression, etc. Thus, I was prepared via

coupling reactions of Boc-D-4-chlorophenylalanine (Boc = tert-butoxycarbonyl), 1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidine] monohydrochloride and chromone-2-carboxylic acid.

IT 756878-02-2P 756878-10-1P 756878-13-4P
756878-16-7P 756878-18-9P 756878-20-3P
756878-26-9P 756878-28-1P

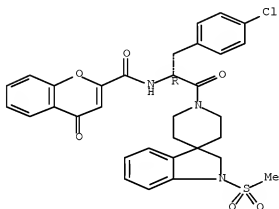
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of piperidine and piperazine amino acid derivs. as melanocortin-4 receptor modulators)

RN 756878-03-2 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[(1R)-1-[(4-chlorophenyl)methyl]-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxoethyl]-4-oxo- (CA INDEX NAME)

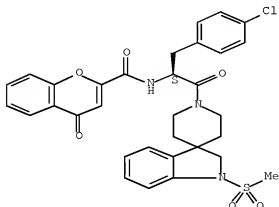
Absolute stereochemistry.



RN 756878-10-1 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[(1S)-1-[(4-chlorophenyl)methyl]-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxoethyl]-4-oxo- (CA INDEX NAME)

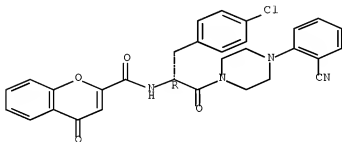
Absolute stereochemistry.



RN 756878-13-4 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[(1R)-1-[(4-chlorophenyl)methyl]-2-[4-(2-cyanophenyl)-1-piperazinyl]-2-oxoethyl]-4-oxo- (CA INDEX NAME)

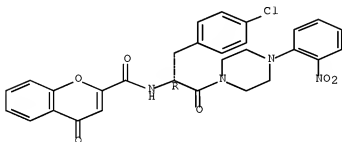
Absolute stereochemistry.



RN 756878-16-7 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[(1R)-1-[(4-chlorophenyl)methyl]-2-[4-(2-nitrophenyl)-1-piperazinyl]-2-oxoethyl]-4-oxo- (CA INDEX NAME)

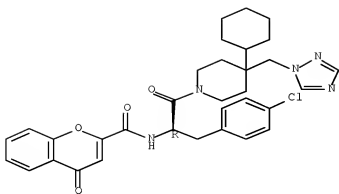
Absolute stereochemistry.



RN 756878-18-9 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[(1R)-1-[(4-chlorophenyl)methyl]-2-[4-cyclohexyl-4-(1H-1,2,4-triazol-1-ylmethyl)-1-piperidinyl]-2-oxoethyl]-4-oxo- (CA INDEX NAME)

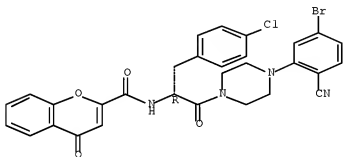
Absolute stereochemistry.



RN 756878-20-3 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[(1R)-2-[4-(5-bromo-2-cyanophenyl)-1-piperazinyl]-1-[(4-chlorophenyl)methyl]-2-oxoethyl]-4-oxo- (CA INDEX NAME)

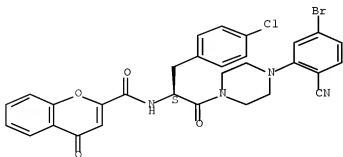
Absolute stereochemistry.



RN 756878-26-9 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[(1S)-2-[4-(5-bromo-2-cyanophenyl)-1-piperazinyl]-1-[(4-chlorophenyl)methyl]-2-oxoethyl]-4-oxo- (CA INDEX NAME)

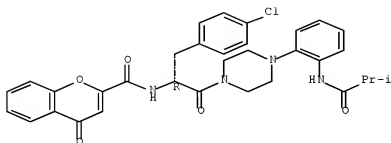
Absolute stereochemistry.



RN 756878-28-1 CAPLUS

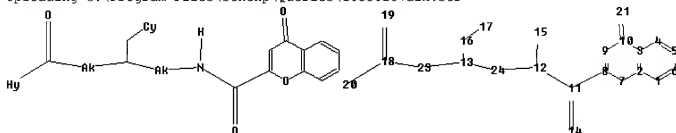
CN 4H-1-Benzopyran-2-carboxamide, N-[(1R)-1-[(4-chlorophenyl)methyl]-2-[4-[2-[(2-methyl-1-oxopropyl)amino]phenyl]-1-piperazinyl]-2-oxoethyl]-4-oxo-
(CA INDEX NAME)

Absolute stereochemistry.



=>

Uploading C:\Program Files\Stnexp\Queries\10550267alk.str



chain nodes :

11 12 13 14 15 16 17 18 19 20 21 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

8-11 10-21 11-12 11-14 12-15 12-24 13-16 13-24 13-23 16-17 18-20 18-19
18-23

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-10 4-5 5-6 7-8 8-9 9-10

exact/norm bonds :

10-21 11-12 11-14 12-24 13-24 13-23 16-17 18-20 18-19 18-23

exact bonds :

2-7 3-10 7-8 8-9 8-11 9-10 12-15 13-16

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:Atom 18:CLASS

19:CLASS 20:Atom 21:CLASS

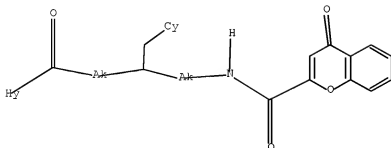
23:CLASS 24:CLASS

L6 STRUCTURE UPLOADED

=> d 16

L6 HAS NO ANSWERS

L6 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 16 full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 16:59:50 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 5640 TO ITERATE

100.0% PROCESSED 5640 ITERATIONS

0 ANSWERS

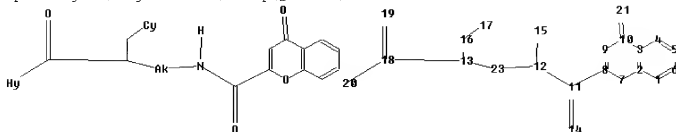
SEARCH TIME: 00.00.01

L7 0 SEA SSS FUL L6

L8 0 L7

=>

Uploading C:\Program Files\Stnexp\Queries\10550267onealk.str



```

chain nodes :
11 12 13 14 15 16 17 18 19 20 21 23
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
8-11 10-21 11-12 11-14 12-15 12-23 13-16 13-23 13-18 16-17 18-20 18-19

ring bonds :
1-2 1-6 2-3 2-7 3-4 3-10 4-5 5-6 7-8 8-9 9-10
exact/norm bonds :
10-21 11-12 11-14 12-23 13-23 16-17 18-20 18-19
exact bonds :
2-7 3-10 7-8 8-9 8-11 9-10 12-15 13-16 13-18
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:Atom 18:CLASS
19:CLASS 20:Atom 21:CLASS
23:CLASS

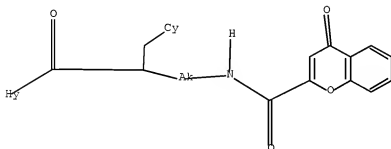
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L9 STRUCTURE UPLOADED

=> d 19

L9 HAS NO ANSWERS

L9 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 19 full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 17:01:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5640 TO ITERATE

100.0% PROCESSED 5640 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L10 0 SEA SSS FUL L9

L11 0 L10

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.48	724.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

FILE 'REGISTRY' ENTERED AT 17:01:33 ON 04 MAR 2008
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STRUCTURE FILE UPDATES: 3 MAR 2008 HIGHEST RN 1006431-93-1
DICTIONARY FILE UPDATES: 3 MAR 2008 HIGHEST RN 1006431-93-1

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.92	725.24
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

FILE 'REGISTRY' ENTERED AT 17:02:36 ON 04 MAR 2008

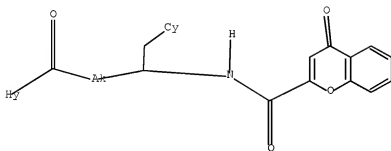
23:CLASS

L12 STRUCTURE UPLOADED

=> d l12

L12 HAS NO ANSWERS

L12 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l12 full

FULL SEARCH INITIATED 17:04:23 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2302 TO ITERATE

100.0% PROCESSED 2302 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

L13

2 SEA SSS FUL L12

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

179.28

904.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-0.80

FILE 'CAPLUS' ENTERED AT 17:04:29 ON 04 MAR 2008

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FILE COVERS 1907 - 4 Mar 2008 VOL 148 ISS 10
FILE LAST UPDATED: 3 Mar 2008 (20080303/ED)

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L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:772652 CAPLUS Full-text

DOCUMENT NUMBER: 141:261061

TITLE: Preparation of substituted piperidine and piperazine amino acid derivatives as melanocortin-4 receptor modulators

INVENTOR(S): Soeberdt, Michael; Weyermann, Philipp; Von Sprecher, Andreas

PATENT ASSIGNEE(S): Myocontract Ltd., Switz.

SOURCE: Eur. Pat. Appl., 66 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1460073	A1	20040922	EP 2003-6254	20030320
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004222095	A1	20040930	AU 2004-222095	20040319
AU 2004222095	B2	20070517		
CA 2519442	A1	20040930	CA 2004-2519442	20040319
WO 2004083209	A1	20040930	WO 2004-EP2907	20040319
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1603912	A1	20051214	EP 2004-721899	20040319
EP 1603912	B1	20070718		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
JP 2006520362	T	20060907	JP 2006-504754	20040319
AT 367391	T	20070815	AT 2004-721899	20040319
US 2006241123	A1	20061026	US 2006-550267	20060213

PRIORITY APPLN. INFO.:

EP 2003-6254

A 20030320

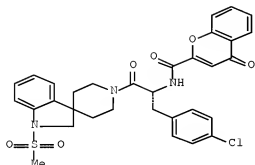
WO 2004-EP2907

A 20040319

OTHER SOURCE(S):

MARPAT 141:261061

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AB The invention relates to novel substituted piperidine and piperazine derivs. A-CO(CH₂)_mCH(CH₂-Ar)(CH₂)_nNHCOR₁ [Ar is (un)substituted aryl or heteroaryl; R₁ is (un)substituted chromone-2-yl, 3-aminochromone-2-yl or 4-oxoquinolin-3-yl; A is substituted 1-piperidinyl or 1-piperazinyl; m, n are 0-2] or their pharmaceutically-acceptable salts for use as melanocortin-4 receptor (MC-4R) modulators. MC-4R agonists of the invention can be used for the treatment of disorders and diseases such as obesity, diabetes, and sexual dysfunction, whereas the MC-4R antagonists are useful for the treatment of cancer cachexia, muscle wasting, anorexia, anxiety, depression, etc. Thus, I was prepared via coupling reactions of Boc-D-4-chlorophenylalanine (Boc = tert-butoxycarbonyl), 1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidine] monohydrochloride and chromone-2-carboxylic acid.

IT 756878-22-5P 756878-24-7P

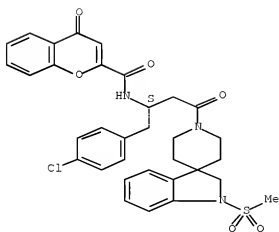
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of piperidine and piperazine amino acid derivs. as melanocortin-4 receptor modulators)

RN 756878-22-5 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[(1S)-1-[(4-chlorophenyl)methyl]-3-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-3-oxopropyl]-4-oxo- (CA INDEX NAME)

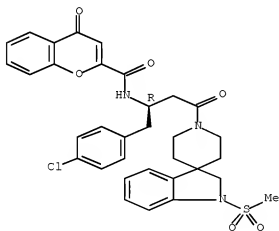
Absolute stereochemistry.



RN 756878-24-7 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, N-[(1R)-1-[(4-chlorophenyl)methyl]-3-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-3-oxopropyl]-4-oxo- (CA INDEX NAME)

Absolute stereochemistry.



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(FILE 'HOME' ENTERED AT 16:54:51 ON 04 MAR 2008)

FILE 'REGISTRY' ENTERED AT 16:54:56 ON 04 MAR 2008

L1 STRUCTURE UPLOADED

L2 0 S L1 FULL

L3 STRUCTURE UPLOADED

L4 8 S L3 FULL

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L5 1 S L4 FULL
 L6 STRUCTURE UPLOADED
 S L6

 L7 FILE 'REGISTRY' ENTERED AT 16:59:49 ON 04 MAR 2008
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 L8 FILE 'CAPLUS' ENTERED AT 16:59:50 ON 04 MAR 2008
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 L14 1 S L13 FULL

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	ENTRY	SESSION
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